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L8 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:588976 HCAPLUS
DOCUMENT NUMBER: 137:124617
TITLE: Compositions for increasing athletic performance in mammals
INVENTOR(S): St. Cyr, John; Johnson, Clarence A.
; Hagerman, Scott; Vasquez, Louis W.; Butler, Terri L.
PATENT ASSIGNEE(S): Bioenergy Inc., USA
SOURCE: U.S., 15 pp., Cont.-in-part of U.S. 6,159,942.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6429198	B1	20020806	US 2000-677639	20001003
US 6159942	A	20001212	US 1999-290789	19990412
WO 2002009727	A1	20020207	WO 2001-US41448	20010727

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
US 1999-290789 A2 19990412
US 1998-90001P P 19980619
US 2000-221526P P 20000728
US 2000-677639 A 20001003
US 2001-302200P P 20010629

AB Pentose is administered to mammals to increase athletic performance and reduce fatigue. Thus, plantaris complex muscles of healthy adult male Sprague-Dawley rats were surgically exposed and perfused with reconstituted blood perfusion medium contg. amino acids, mM glucose and 100.mu.U of bovine insulin/mL. The muscle was perfused with reconstituted blood medium at 40 mL/min, providing tissue perfusion of approx. 0.65 mL/min. Varying concns. of D-ribose were added to the perfusate. The muscle was perfused for 30 min. The results show that normal, healthy muscle has low baseline levels of ribose and nucleotide salvage capability, which can be increased by the administration of ribose.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:409253 HCAPLUS
DOCUMENT NUMBER: 136:380150
TITLE: Method for treating acute mountain sickness
INVENTOR(S): Butler, Terri L.; St. Cyr, John;
Johnson, Clarence A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 406,266.
CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002065232	A1	20020530	US 2001-821238	20010329
US 6218366	B1	20010417	US 1999-406266	19990924
PRIORITY APPLN. INFO.:			US 1999-406266	A2 19990924
			US 1998-90001P	P 19980619
			US 1999-290789	A2 19990412

AB Persons encountering high altitudes without being acclimatized can prevent or alleviate the symptoms of acute mountain sickness by administration of ribose one to four times a days, beginning immediately on encountering high altitudes and continuing for at least five days.

L8 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2002:107129 HCAPLUS
 DOCUMENT NUMBER: 136:145240
 TITLE: Ribose compositions for improving cardiovascular function
 INVENTOR(S): Butler, Terri L.; St. Cyr, John; Johnson, Clarence A.
 PATENT ASSIGNEE(S): Bioenergy, Inc., USA
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002009727	A1	20020207	WO 2001-US41448	20010727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 6429198	B1	20020806	US 2000-677639	20001003
US 2002119933	A1	20020829	US 2001-917292	20010727
PRIORITY APPLN. INFO.:			US 2000-221526P	P 20000728
			US 2000-677639	A 20001003
			US 2001-302200P	P 20010629
			US 1999-290789	A2 19990412

AB The present invention relates to compns. for supplementing the diet of subjects suffering from cardiovascular or peripheral vascular disease or those at risk for such conditions. Ribose is given alone or in combination with one or a combination of vasodilators, nutrients and vitamins. Preferred vitamins include Vitamins C, B6, B12 and folic acid. Preferred nutrients include glutamine and glucose. A study was done to select a lower and safer dose of ribose that is effective in increasing cardiovascular and peripheral vascular function and can be taken long-term for maintenance and cardioprotection.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:525930 HCAPLUS
 DOCUMENT NUMBER: 135:97510
 TITLE: Compositions for enhancing the immune response
 INVENTOR(S): Percival, Susan S.; Henken, Robin J.; **St. Cyr, John; Johnson, Clarence A.; Butler, Terri L.**
 PATENT ASSIGNEE(S): Bioenergy Inc., USA; University of Florida Research Foundation, Incorporated
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051062	A1	20010719	WO 2001-US524	20010108
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
GB 2364642	A1	20020206	GB 2001-23223	20010108
US 2002028196	A1	20020307	US 2001-756558	20010108
PRIORITY APPLN. INFO.:			US 2000-175050P P	20000107
			WO 2001-US524 W	20010108

AB D-Ribose and methods for using D-ribose are provided for enhancing the immune response in mammals. Those with a less than optimal immune response will benefit from oral or parenteral administration of D-ribose (0.2-20 g). Methods are also provided for the enhancement of the immune response in isolated leukocytes. Leukocytes are cultured ex vivo in the presence of D-ribose and transfused into a patient in need of leukocyte augmentation.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:279563 HCAPLUS
 DOCUMENT NUMBER: 134:275765
 TITLE: Method using **ribose** for raising the hypoxic threshold
 INVENTOR(S): **St. Cyr, John; Johnson, Clarence A.**
 ; MacCarter, Dean J.; Sawada, Stephen G.
 PATENT ASSIGNEE(S): Bioenergy, Inc., USA
 SOURCE: U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 290,789.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6218366	B1	20010417	US 1999-406266	19990924
US 6159942	A	20001212	US 1999-290789	19990412
US 2002065232	A1	20020530	US 2001-821238	20010329
EP 1247525	A1	20021009	EP 2001-303144	20010402

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.:

US 1998-90001P P 19980619

US 1999-290789 A2 19990412

US 1999-406266 A2 19990924

AB The administration of **ribose** raises the hypoxic threshold of mammals experiencing a hypoxic condition. The presence of an effective amt. of **ribose** in the tissue of a mammal increases the tolerance to hypoxia and decreases the symptoms of hypoxia in mammals experiencing chronic hypoxia due to **cardiovascular** disease or peripheral vascular disease. Such mammals are addnl. benefited by administration of **ribose** and a vasodilator or an isotropic agent. Mammals experiencing transient hypoxia from high altitude, anesthesia or exercise are also benefited.

REFERENCE COUNT:

35

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT